

ARNOLD & PORTER

202.942.5000
202.942.5999 Fax

555 Twelfth Street, NW
Washington, DC 20004-1206



December 6, 2002

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DEC 11 2002

TECH CENTER 1600/2900

Commissioner for Patents
Washington, D.C. 20231

Re: U.S. Patent Application No. 09/824,200
Filed: April 3, 2001
Title: Expression and Purification of Bioactive, Authentic Polypeptides from
Plants
Applicants: Douglas A. RUSSELL *et al.*
Atty. Docket: 18337.006

Sir:

The following documents are forwarded herewith for appropriate action by the U.S.
Patent and Trademark Office (USPTO):

1. Petition for Extension of Time under 37 C.F.R. § 1.136 (in duplicate);
2. Revocation of Prior Power of Attorney, Appointment of New Attorneys of Record and Change of Correspondence Address executed by a representative on behalf of Monsanto Technology LLC;
3. Amendment; and
4. Return postcard.

Please stamp the postcard with the filing date of these documents and return it to our courier.

Applicants request that the \$110.00 for a one-month extension of time fee be charged to Deposit Account No. 50-2387, referencing docket number 18337.006.

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In the event that extensions of time beyond those petitioned for herewith are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned. Applicants do not believe any additional fees are due in conjunction with this filing. However, if any fees under 37 C.F.R. §§ 1.16 or 1.17 are required in the present application, including any fees for extensions of time, then the Commissioner is hereby authorized to charge such fees to Arnold & Porter Deposit Account No. 50-2387, referencing matter number 18337.006. A duplicate copy of this letter is enclosed.

Respectfully submitted,

A handwritten signature in cursive script, reading "Lisa A. Penoyer".

June E. Cohan (Reg. Attorney No. 43,741)

Lisa A. Penoyer (Reg. Agent No. 51,204)

Attachments



#11/A 88
12/13/02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Patent Application of:

Douglas A. Russell *et al.*

Appl. No.: 09/824,200

Filed: April 3, 2001

Art Unit: 1637

Examiner: J. Fredman

Atty. Docket: 18337.006

For: Expression and Purification of
Bioactive, Authentic Polypeptides
from Plants

AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

In reply to the Office Action mailed 6 August 2002 (Paper No. 8), Applicants
submit the following amendments and remarks:

AMENDMENTS

IN THE SPECIFICATION:

Please delete the paragraph on page 17, line 5 through page 17, line 16 beginning
"The present invention also contemplates producing...."

Please insert the following paragraph in place of the above-deleted paragraph:

The present invention also contemplates producing biologically active, authentic
granulocyte colony stimulating factor (G-CSF) from a plant host system. G-CSF is an O-
glycosylated 19 kDa glycoprotein, and the biologically active form is a monomer. cDNA
analysis of G-CSF has revealed a protein of 207 amino acids containing a hydrophobic
secretory signal sequence of 30 amino acids. Furthermore, G-CSF contains 5 cysteine

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